



Theme Implementation Plan for Imagery Theme

Department of Agriculture
Department of Interior

Federal Geographic Data Committee (FGDC)

April 28, 2017



Imagery Theme FY2017 Implementation Plan Report

Theme Personnel	
Theme Lead (Co-Leads):	John Cullen, Shirley Hall
Theme Lead Agency(ies):	DOI-USGS, USDA-FSA
Executive Theme Champion(s):	Tod Dabolt, DOI; Shirley Hall, USDA (detail)
Executive Champion Agency(ies):	DOI, USDA

Imagery Theme NGDA Datasets	NGDA Agency
Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER)	NASA
High Resolution Orthoimagery	USGS
Landsat 1-5 Multispectral Scanner (1972-1992)	USGS
Landsat 4-5 Thematic Mapper (1982 - present)	USGS
Landsat 7 Enhanced Thematic Mapper Scan Line Corrector Off (ETM SLC-off) (2003-present)	USGS
Moderate Resolution Imaging Spectroradiometer (MODIS) - Aqua	NASA
Moderate Resolution Imaging Spectroradiometer (MODIS) – Terra	NASA
National Agriculture Imagery Program	FSA
NOAA Coastal Mapping Remote Sensing Data	NOAA

Theme Strategic Plan:

https://cms.geoplatform.gov/sites/default/files/a16imagery/Imagery_Strategic_Plan_FY2016_20160715.pdf

Human and Financial Resources Needed for Theme Management

Reporting Period for Human and Financial Resources: Oct. 1, 2016 – March 31, 2017

Description of Theme Management Activities	Role	% FTE	FTE Grade
A-16 NGDA Theme management	FSA Co-Theme Lead	.2	14
A-16 NDGA Theme Lead Management	USGS Co- Theme Lead	.2	15

Goal 1: Fulfill Agency Business Requirements for Imagery Requirements				
Objective 1.1: Identify Agency Requirements Agency and/or Stakeholders Involved: NDOP, Other Federal Agencies, FGDC secretariat Anticipated Outcome: Comprehensive assessment of all federal agency imagery requirements				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date
1.1.1 Identify department-wide imagery contacts from all participating FGDC agencies to participate in NDOP or at minimum to facilitate implementation of strategic plan	Identification of departmental contacts	Number of departmental contacts	Imagery Theme Leads and NDOP Leadership in concert with FGDC Secretariat	FY 2017, Q4
1.1.2 Evaluate individual agency/program land imaging user requirements via annual self-reporting mechanism	Complete initial investigation by EOY 2017, reassess periodically	Identified /compiled requirements for FGDC agencies and participating states	TBD based on type of requirement collection involved. Some initial work has been done in FY16/17 by FSA and USGS. Additional information (specific to Civilian Agencies) may be forthcoming as part of GSA/NGA CIBORG Schedule 70 activity that is ongoing during in 2017. This additional activity needs to be assessed. This is a very large task and will likely involve multiple groups.	FY 2018
1.1.3 and 1.1.4 Baseline major imagery requirements for fifty states and Insular Areas	Using 1.1.2 compilation, assess and document findings.	Completed document of findings.	NDOP Program Subcommittee (includes Federal and NSGIC representation) with assistance from NAIP	FY2018

			2018 Imagery Team, and USGS-LRS Program Office.	
Agency and/or Stakeholder		Activity through FY 2017, Q2		
Theme Leads/Stakeholder Agency Participation		Attendance in CIBORG Industry Day on March 6, Civil Agency and NGA working session March 31.		
Partner Agency Participation		Bi-Weekly Partner/Stakeholder Participation in NAIP 2018 Requirement Meetings – January 2017 – March 2017		
Partner Agency Participation		On-going Review of Imagery Access and Sharing provisions associated with the Civil Applications Committee and NGA.		
Objective 1.2: Identify Mechanisms to Meet Agency Requirements and Build Effective Partnerships Agency and/or Stakeholders Involved: NDOP and Collection Programs of NGDA Agencies Anticipated Outcome: Use the identified mechanisms to review partner requirements and determine how to meet the greatest needs at the lowest cost				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date
1.2.1 Identify mechanisms for flexible licensing options	NDOP Technical and Program Subcommittee review of successful licensing options currently in place. Compile information available re: current and future products and services.	Licensing options identified.	NDOP	FY2018
1.2.2 Identify mechanisms for streamlined and effective contracting	Identify collection contracting options. Potentially impacted by GSA Schedule 70 activity and NAIP 2018 contract development.	Best practice contract options are identified and documented	NDOP	FY2018
1.2.3 Identify mechanisms for	Build framework for	Completion of National Imagery	NDOP	FY2019/2020

enhanced cost-effective storage and distribution	meeting FGDC imagery needs.	Data Maintenance Plan		
Agency and/or Stakeholder		Activity through FY 2017, Quarter 2		
N/A		N/A in reporting timeframe.		
Objective 1.3: Assess Imagery Requirements Fulfillment Agency and/or Stakeholders Involved: NDOP and Collection Programs of NGDA Agencies Anticipated Outcome: Identify gaps in imagery requirements fulfillment, identify potential modifications to meet new needs, and apply “lessons learned” for program improvement				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date
1.3.1 Annually assess effectiveness of the imagery suite in meeting mission needs according to best practices	User survey collection complete	Submission to FGDC annual report	NDOP	FY2019 and annual thereafter
1.3.2 Compile gap assessment documentation	Recommendations or actions taken based on gaps identified in assessment of program effectiveness, including root cause analysis.	Annual submission to FGDC	NDOP	FY2019 and annual thereafter
1.3.3 Identify required actions for subsequent year contracting and remedies to address shortfalls	Identify subsequent year action plans	Document Changes and prioritize recommended improvements	NDOP	FY2019 and annual thereafter
1.3.4 Establish a mechanism to record and share collection strategies and requirements for routine and emergency imagery to remove redundancy and enhance effectiveness	Identify what is being collected, responsible parties and actions. Requirements for routine (e.g., NAIP), unique (e.g., shoreline) and emergency imagery, adding imagery in	List of documents, best practices, process flows	TBD	Following first National Summit, FY2019

	marketplace (for routine imagery) following acquisition. Develop documentation to identify process flows for handling various scenarios in order to optimize funding. Creation of metadata profile.			
Agency and/or Stakeholder		Activity through FY 2017, Quarter 2		
N/A		N/A for reporting timeframe		
Objective 1.4: Funding				
Agency and/or Stakeholders Involved: NDOP and Collection Programs of NGDA Agencies				
Anticipated Outcome: Stabilization of Funding				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date
1.4.1 Identify current imagery funding sources and explore alternate funding sources and partnership models	Working session (summit) with identified representatives to have a discussion on sources of funding	Summit Output Document	NDOP	FY2018
1.4.2 Identify the values and benefits of having non-lapsing funds and establishing MOAs for effective inter-agency collaboration and transfer of funds (GAO 13-94)	Tie to 1.4.1, and documentation of usefulness of non-lapsing funds (pros/cons).	Summit Output Document	NDOP	FY2018
Agency and/or Stakeholder		Activity through FY 2017, Quarter 2		
N/A		N/A for reporting timeframe		

Goal 2: Facilitate the Availability and Use of Imagery and Geospatial Data				
Objective 2.1: Support and Collaboration				
Agency and/or Stakeholders Involved: Theme Leads and NGDA Collection Agencies				
Anticipated Outcome: Create an inter-agency support network for use by existing and potential imagery programs. This may include technical, managerial, coordination, and other activities.				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date
2.1.1 National Plan for contract and supporting relationships among federal and non-federal partners	Convene National Imagery Summit of Federal, State and local agencies	Publish Summit proceedings	NDOP	FY2018
2.1.2 Create a directory of state agency representatives and a National Plan for US imagery management and partnership development	Publish Directory		NDOP	FY2018
2.1.3 Identify national roles and missions consistent with National Plan	Create ongoing process mechanism for imagery management and technical support to users.		NDOP	FY2019
Agency and/or Stakeholder		Activity through FY 2017, Quarter 2		
N/A		N/A for reporting timeframe		
Objective 2.2: Data-Sharing				
Agency and/or Stakeholders Involved:				
Anticipated Outcome: Lead and participate in the development and coordination of national and international standards applicable to the imagery geospatial community.				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date
2.2.1 Identify mechanisms for expanding distribution	For satellite imagery and web mapped services and longevity of	Documentation of expanded distribution rights agreements.	NDOP	FY 2018

rights (e.g., Digital Globe Enterprise Premium)	hosting (availability of data past 6 months currently found in EO12333)	(Note – this may be impacted by GSA Schedule 70 activities as well as the NAIP 2018 Out-year Contract activities)		
2.2.2 Identify mechanisms for enhanced and cost-effective distribution for current and archived imagery	Use surveys to explore various storage needs and distribution methodologies, investigating new web service options and pitfalls, each agency identifying expected costs (agency explanation if costs are not provided). Create documentation of cost-effective methodologies to present to agencies for them to determine road forward. Hosting v Web Services in Geospatial platform location (e.g., review breakout of Cost Benefit Analysis of IFTN)	Documentation of cost-effective methodologies	NDOP	FY 2020
Agency and/or Stakeholder		Activity through FY 2017, Quarter 2		
N/A		N/A for reporting timeframe		